

Co-Founders of J3Tech

	Jim Xanthos	John Cooper
MAS Experience	Successfully Certified Smith & Telfair – Ga Facilities	Successfully Certified Smith & Telfair – Ga Facilities
Govt Experience	7 years at NSA – Office of Special Projects and Techniques (Quick Reaction Projects)	35 years at NSA, CIA, and State Dept with numerous overseas system deployments
Commercial Experience	11 years at Verizon and numerous years at startups and performing technical consulting	Several years of technical consulting
Expertise	Special Purpose Communication System development with emphasis on meeting customer requirements and equipment survivability	Special Purpose Communication System development with emphasis on meeting customer requirements and equipment survivability
Education	BSEE – MIT MSEE – Johns Hopkins JD – Georgetown Univ	BSEE – NCSU MSEE – NCSU Advanced Engineering - MIT

J3Tech & Securus







- Co-founders worked as consultants to Securus for successful MAS deployment at GA Smith & Telfair Facilities (but were not involved at all in the design and development of the MAS system)
- Co-founders no longer working as consultants to Securus
- There is still a Mutual NDA in place, therefore there will be NO DISCUSSION regarding the Securus MAS system

Building

C2

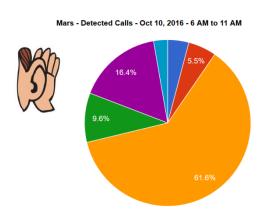
Primary Approaches to Phone Problem

MAS

STATE PRISON

- Dominate Dominate the RF environment inside the facility to prevent handset connection to carrier network
- Non-Interference No interference with the carrier signals outside the facility

DETECTION



- Detection Detect when and where calls are being placed (within the area of coverage)
- Targeting Target the areas with the biggest phone usage to help root out the problem

JAMMING



- Dominate Dominate the RF environment inside the facility to prevent handset connection to carrier network
- Non-Interference No interference with the carrier signals outside the facility
- Legality Currently not legal to jam on carrier frequencies without STA

Seven Years & Governors Concerned



May 23, 2016

The Honorable Thomas E. Wheeler Chairman Federal Communications Commission 445 12th Street, Southwest Washington, District of Columbia 20554

Dear Chairman Wheeler.

We write today to encourage you and your fellow Commissioners to reevaluate the FCC's regulations regarding contraband cellphones. States must have the flexibility and authority to eradicate this real and serious threat to the public safety in our states.

Correctional officers across the country work in an environment many will never see or fully understand in terms of threats to staff and public safety. Contraband cellphones in the hands of prisoners dramatically increase these threats to witnesses, the public, the officers, their families, and even other prisoners. The FCC should act to streamline regulatory review processes and allow states to implement cost-efficient technology in prisons, where the installation of such technology will not sacrifice the safety of the general public.

We understand that what works for one state may not work for another and what may be deemed inexpensive for one state may not be cost-efficient for another. Determinations of this kind on the state level - involving the weighing of options, the analysis of budgets, and the proposals of solutions to enhance public safety - are uniquely state functions that should not be impeded by outdated federal regulations and laws.

As long as there are prisons, there will always be contraband. In the case of cellphones, we believe this is one contraband issue we can solve, but we cannot do that until the FCC acts to allow us to develop the best solutions to secure our correctional institutions.

We look forward to working with you and the FCC on this important issue.

Sincerely.

Governor Nikki Haley South Carolina

Governor Robert Bentley

Richard M. Peru

Governor Michael R. Pence Indiana

Governor Paul R. LePage

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Governor Pete Ricketts

Governor Jack Dalrymple

North Dakota

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Governor Nathan Deal Georgia

Governor Phil Bryant Mississippi

Governor Dennis Daugaard

Gares R Herbert

Governor Gary R. Herbert

Mar 2017 FCC 17-25 Report & Order

Federal Communications Commission

ECC 17-29

Before the Federal Communications Commission Washington, D.C. 20554

In the Matter of)
Promoting Technological Solutions to Combat)
Contraband Wireless Device Use in Correctional)
Facilities |

REPORT AND ORDER AND FURTHER NOTICE OF PROPOSED RULEMAKING

Adopted: March 23, 2017 Released: March 24, 2017

Comment Date: (30 days after date of publication in the Federal Register) Reply Comment Date: (60 days after date of publication in the Federal Register)

By the Commission: Chairman Pai and Commissioner O'Rielly issuing separate statements; Commissioner Clyburn approving in part, concurring in part, and issuing a statement.

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Quiet Zones

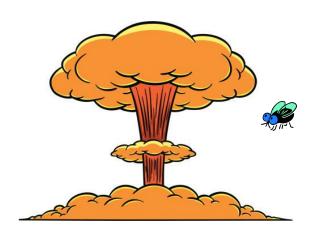


Dead Zones





Standard Jamming is NOT Right Answer

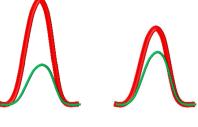


- Too Powerful Like using nuclear weapons to kill a fly
- NTIA 2010 Study Used 100 Watt Jammer & Results indicated that there was too much emission outside targeted area
- Other Countries There have been reported instances of issues in Brazil, India, and New Zealand outside targeted area

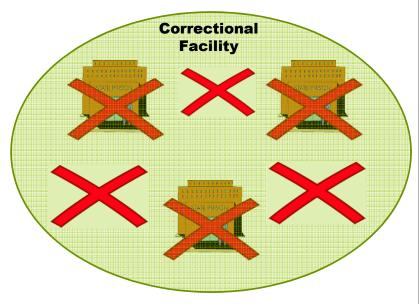




Non-Interference – No interference with the carrier signals outside the *quiet zone*



INSIDE OUTSIDE Quiet Zone



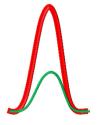
Shielded Micro Jamming (SMJ)



- Targeted Power Strong enough to dominate the carrier signal within the quiet zone, but shielded from the outside area for non-interference
- Calls Allowed Within Facility Calls are allowed within the facility outside of the quiet zone areas (and everywhere outside of the facility)
- Selective 911 911 calls are allowed within the facility outside of the quiet zone areas (and everywhere outside of the facility)



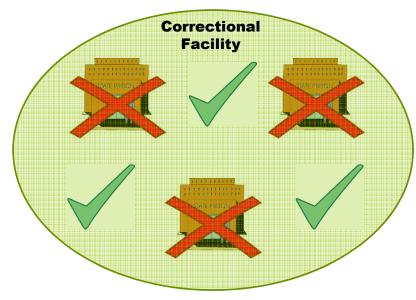




INSIDE Quiet Zone



OUTSIDE Quiet Zone





Next Steps



Collaboration between J3Tech and FCC and Test with STA in an Actual GA Facility